



**U.S. Army
Corps of Engineers**

New England District
Concord, Massachusetts



**U.S. Environmental
Protection Agency**

Region I
Boston, Massachusetts

MODELING FRAMEWORK DESIGN

Modeling Study of PCB Contamination in the Housatonic River

DCN: GE-100500-AADX

October 2000

**Environmental Remediation Contract
General Electric (GE)/Housatonic River Project
Pittsfield, Massachusetts**

Contract No. DACW33-00-D-0006

Task Order No. 0003

00P-2000-1

WESTON
MANAGERS DESIGNERS/CONSULTANTS

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October 2000

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Prepared under

USACE Contract No. DACW33-00-D-0006, Task Order 0003

with Roy F. Weston, Inc.

and

EPA Contract No. 68-C-98-010,

with AQUA TERRA Consultants

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U.S. Army Corps of Engineers

New England District

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and

U.S. Environmental Protection Agency

Region 1

Boston, Massachusetts

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LIST OF ACRONYMS

ACO	Administrative Consent Order
ADCP	Acoustic Doppler Current Profiler
Ah	aryl hydrocarbon
ARM	Agricultural Runoff Management
AWT	Advanced Waste Treatment
BAFs	bioaccumulation factors
BBL	Blasland, Bouck and Lee, Inc.
BMPs	Best Management Practices
BNR	Biological Nutrient Removal
BOD	Biochemical Oxygen Demand
BSAFs	biota-sediment accumulation factors
CMS	Corrective Measures Study
CSOs	Combined Sewer Overflows
CTDEP	Connecticut Department of Environmental Protection
DEM	digital elevation model
DMR	Discharge Monitoring Report
DNAPL	dense nonaqueous phase liquids
DO	dissolved oxygen
DOC	dissolved organic carbon
DOJ	Department of Justice
DOM	dissolved organic matter
EFDC	Environmental Fluid Dynamics Code
EPA	U.S. Environmental Protection Agency
FWS	U.S. Fish & Wildlife Service
GE	General Electric
GIS	geographic information system
GSTARS	Generalized Stream Tube Model For Alluvial River Simulation
HSA	Hydrologic Study Area
HSP	Hydrologic Simulation Program
HSPF	Hydrological Simulation Program—FORTRAN
MADEP	Massachusetts Department of Environmental Protection
NAWQA	National Water-Quality Assessment Program
NITR	nitrogen
NO ₂	nitrite

LIST OF ACRONYMS (Continued)

NO ₃	nitrate
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
NPS	nonpoint sources
NWS	National Weather Service
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PES	Particle Entrainment Simulator
PET	potential evapotranspiration
POC	particulate organic carbon
POM	particulate organic matter
POTW	Publicly Owned Treatment Works
PSA	Primary Study Area
QSPRs	Quantitative Structure-Property Relationships
R/FP	Riverine/Flood Plain
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SCOX	side channels, backwaters, isolated meanders, or oxbows
SCS	Soil Conservation Service
SOD	Sediment Oxygen Demand
STORET	STORage and RETrieval
TEFs	Toxic Equivalency Factors
TKN	Total Kjeldahl Nitrogen
TMDL	total maximum daily load
TSS	total suspended solids
UBOD or BODU	Ultimate Biochemical Oxygen Demands
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey
WLA	Waste Load Allocation
WMS	Watershed Model System
WP	Woods Pond
WQS	Water Quality Standard
WWTP	wastewater treatment plant